

# PEAK ESCAPEMENT RECORD

103-50-49 Port Refugio

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8/26/56		4-5,000		No survey
1960 through 1964				
9/23/65	420	40		
9/8/66	1,450	1,450		
1967	none seen	none seen		
8/22/68	3,800	none seen		
9/3/69	1,000			
9/10/69		125		
9/2/70	1,600	500		
8/16/71	3,000	No survey		
9/18/72	310	935		
9/12/73	none seen	50		
8/29/74	2,000	none seen		
8/18/75	500	none seen		
8/24/76	15,000	none seen		
1977	none seen			
- 146 -				

103-50-10480

Name: Port Refugio - Head Catalog No: 103-50-49  
Latitude: 55°16'34" 35" Former Stream No: 36C 203 ADFG (as listed  
Longitude: 133°20'24" 26" in 1963 Fish & Wildlife service catalog) Previous  
Geodetic Map No: Craig B5-13 Work Area: Ketchikan no. 84  
Location: at head of Port Refugio 0.7 mi Watershed Length: 5.5 miles (3 forks)  
SW of the island in the bay Drainage Area: 5 sq miles  
Water Supply Type: runoff from low forested  
land with scattered muskegs  
Trails & Survey Routes: stream bed easily walked to the forks, progressively  
more difficult walking up each fork  
Aerial Survey Notes: mouth and intertidal portions, much of upper stream  
screened by tall trees and steep banks  
Anchorage: good in Port Refugio  
Tide Stage when Surveyed: 1/2

### RESOURCES

COMMERCIAL FISHERIES (species, escapement, timing, spawning area):  
pink, chum and coho salmon, good rearing for coho;

peak surveys since 1960, 1450 chum 9-8-66, 3800 pink 8-22-68  
Spawning area: 5888m<sup>2</sup> total: 2633m<sup>2</sup> intertidal (700'x45'x90%) + 1379m<sup>2</sup> below forks  
(1650'x20'x45%) + 246m<sup>2</sup> right fork + 1630m<sup>2</sup> left fork (2700'x10'x65%)  
Schooling Areas: at the mouth and in a deep pool immediately above high tide

Spawning Areas: from intertidal above the forks (see map)

SHELLFISH POTENTIAL: a good population of dungeness crab reported to be in  
Port Refugio

SPORT FISHERIES: one of the two streams on Suemez Island that may support a trout  
and steelhead population large enough to interest a sport fisherman; no fish were  
observed at the time of survey

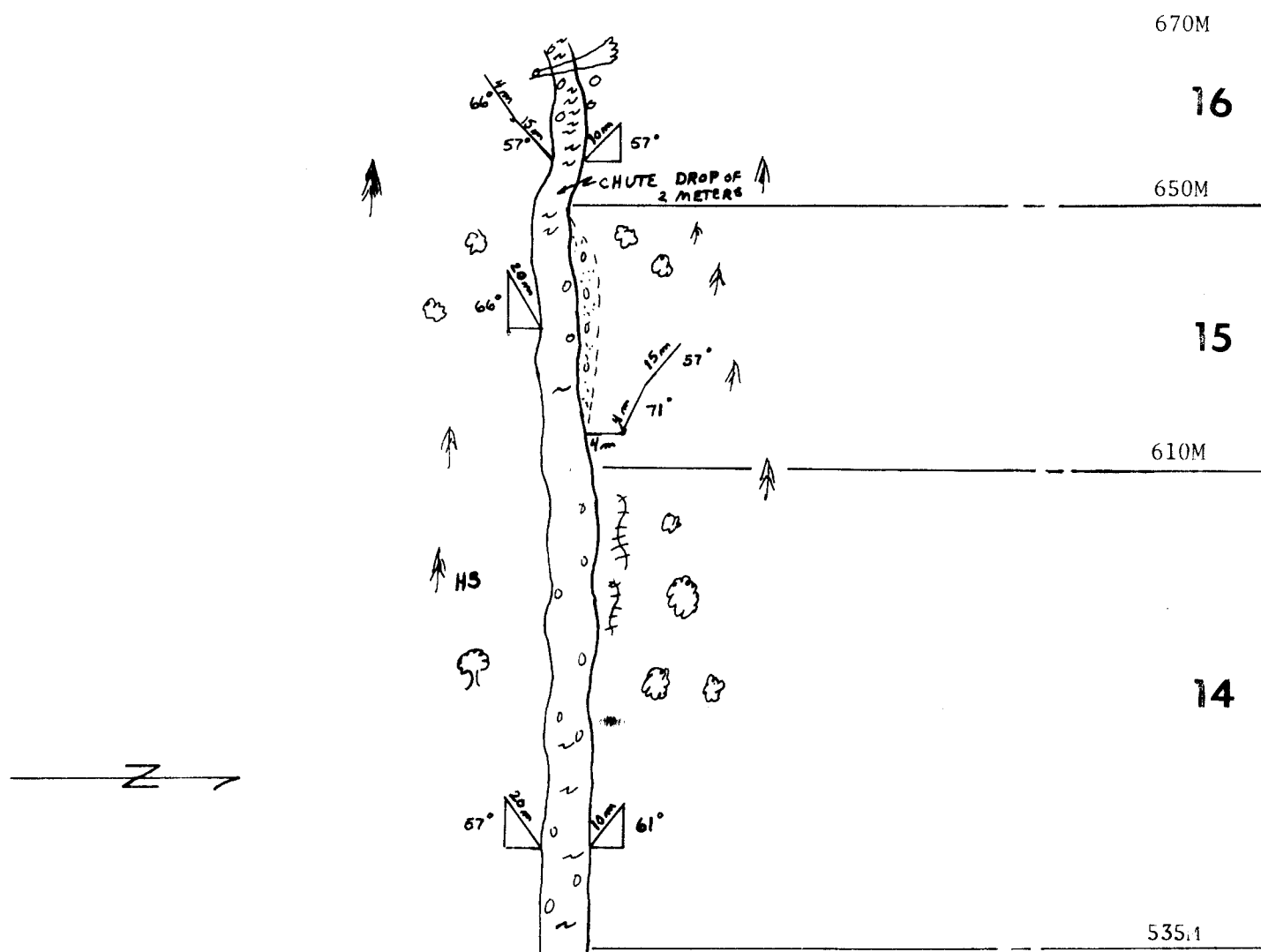
LAND USE (history, present, proposed): the history of land use activities is  
largely unknown; the Port Refugio bay area is utilized in the fall by hunters (deer  
and waterfowl) and trappers; a stand of very good spruce is along the upper stream,  
the harvesting of which would certainly imperil the stream's productivity

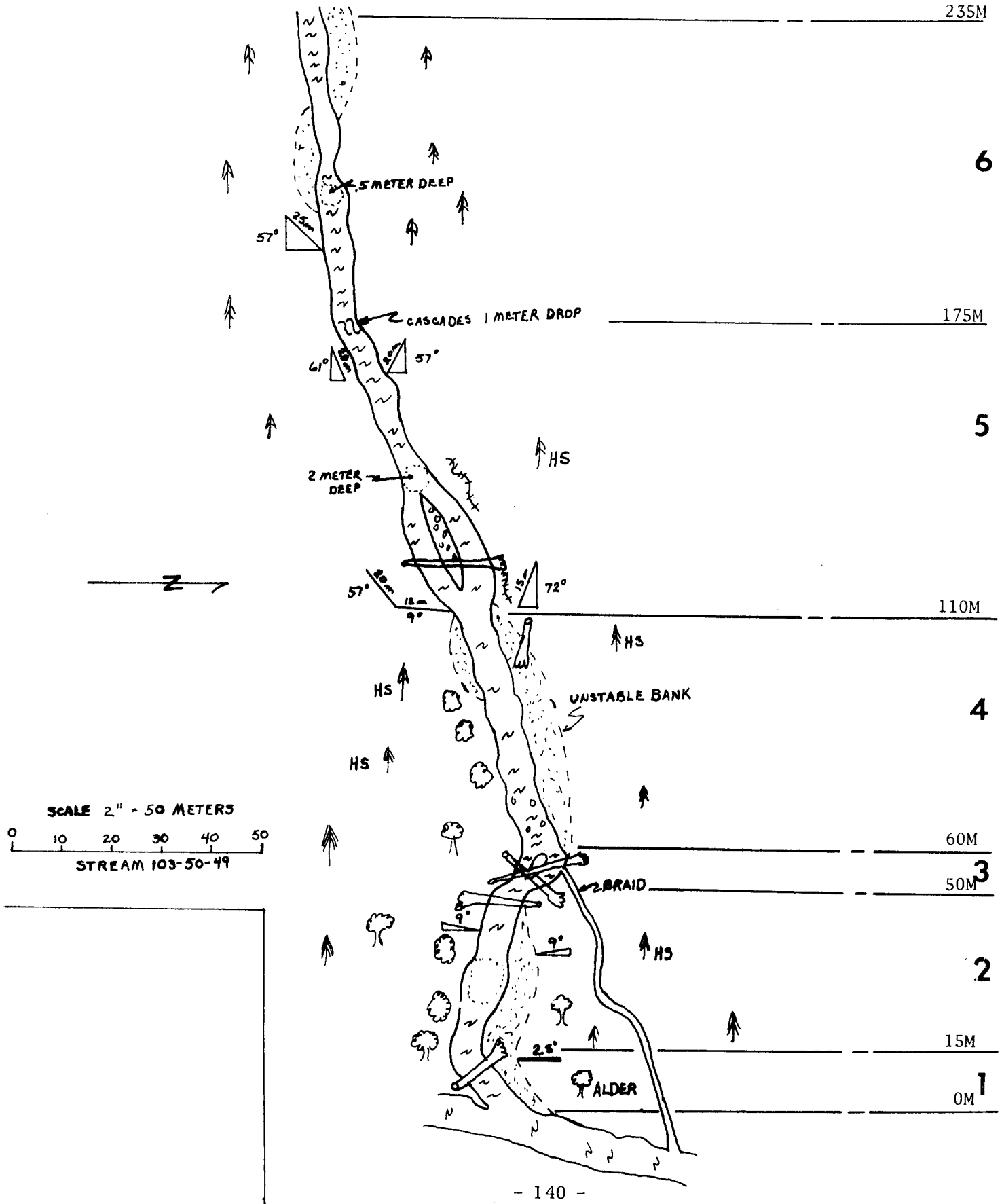
REHABILITATION POTENTIAL: none needed

SOILS: generally stable; considerable portions of the creek are braided with  
overflow channels, but the streambed is stabilized by the large spruce growing in or  
near the creek

GAME RESOURCES (species, use, habitat): reportedly a good resting and feeding  
area for waterfowl; two black bear, one wolf and seven deer were observed in the area  
while flying in a helicopter

103-50-49  
Fork 1/2 mi up on right





103-50-49  
Left Fork

4713'

20% slope for 150'

5' wide  
40% cobbles  
60% gravel

open timber

small tributary

30M  
108°  
1% gradient

50% ASA

stream channel 20'  
wide, stream 8'  
wide

25 rearing coho

slightly undercut  
banks only 6" high  
mossy and stable  
water 3" deep  
100% well-rounded gravel  
very good rearing

65% ASA

10' wide

Right - 100% slope to  
stream of 40', less  
steep above  
Left - 140' wide flood  
plain with braided flood  
channels, 50' 60% slope,  
level above

4614'

41M  
110°  
1% gradient

4479'

12 1.5" coho

15M  
197°  
4% gradient

very thick brush

50% ASA

Braided area; portions of the creek  
percolate through the gravel leaving  
isolated pools

4429'

10% small boulders  
20% large cobbles  
40% small cobbles  
30% gravel

very old mossy logs

35% slope  
for 60',  
level  
beyond

50% ASA

30M  
154°  
4% gradient

The roots of the  
large spruce seem  
to be the stabil-  
izing agent in  
this creek

25/75 pool/riffle

30' flood plain  
7' wide stream

20% slopes

banks low, mossy, undercut

55% slope

numerous coho and  
Dolly Varden fry  
in pools

60% cobbles  
40% gravel

35% ASA

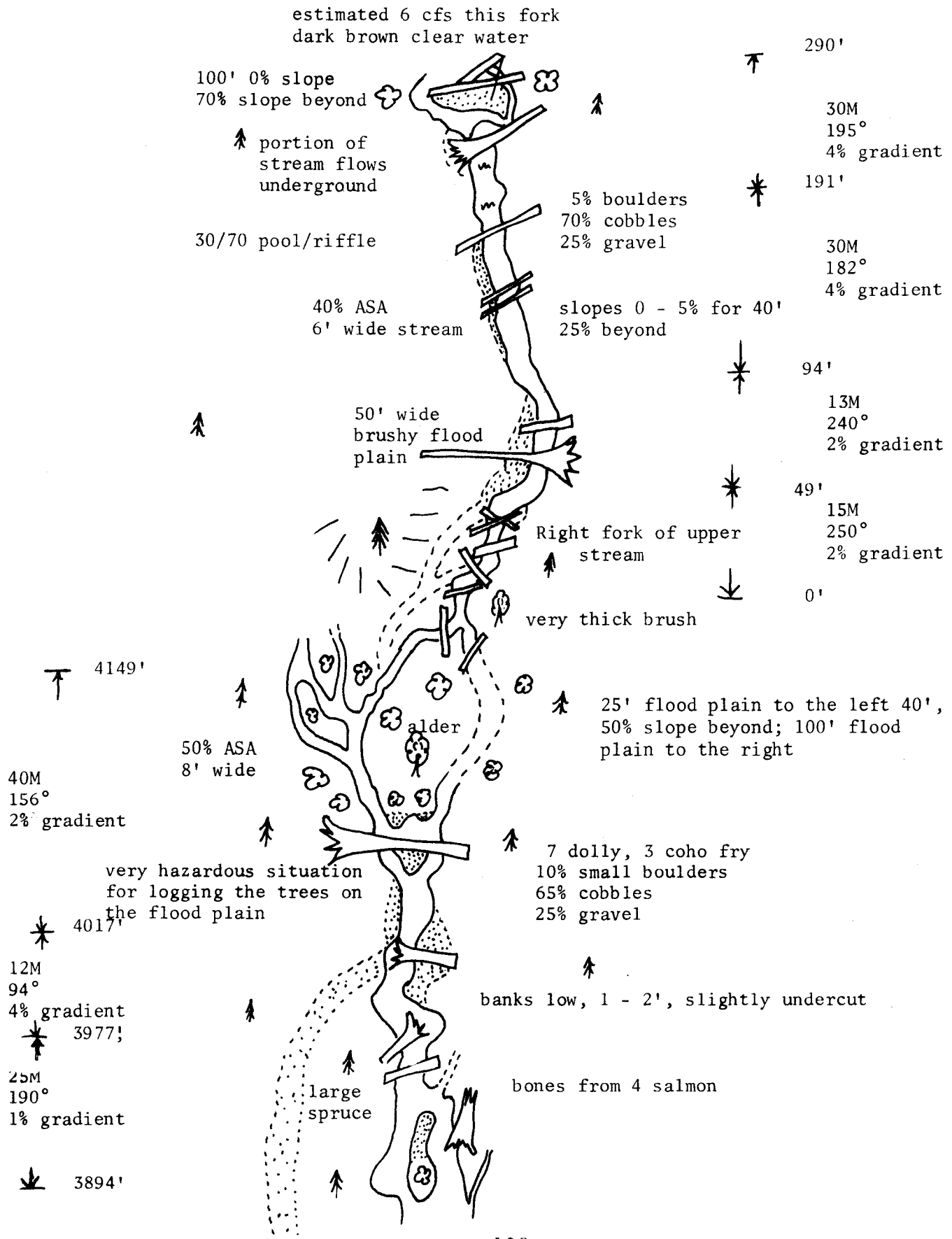
35M  
152°  
3% gradient

4215'

20M  
128°  
2% gradient  
4149'

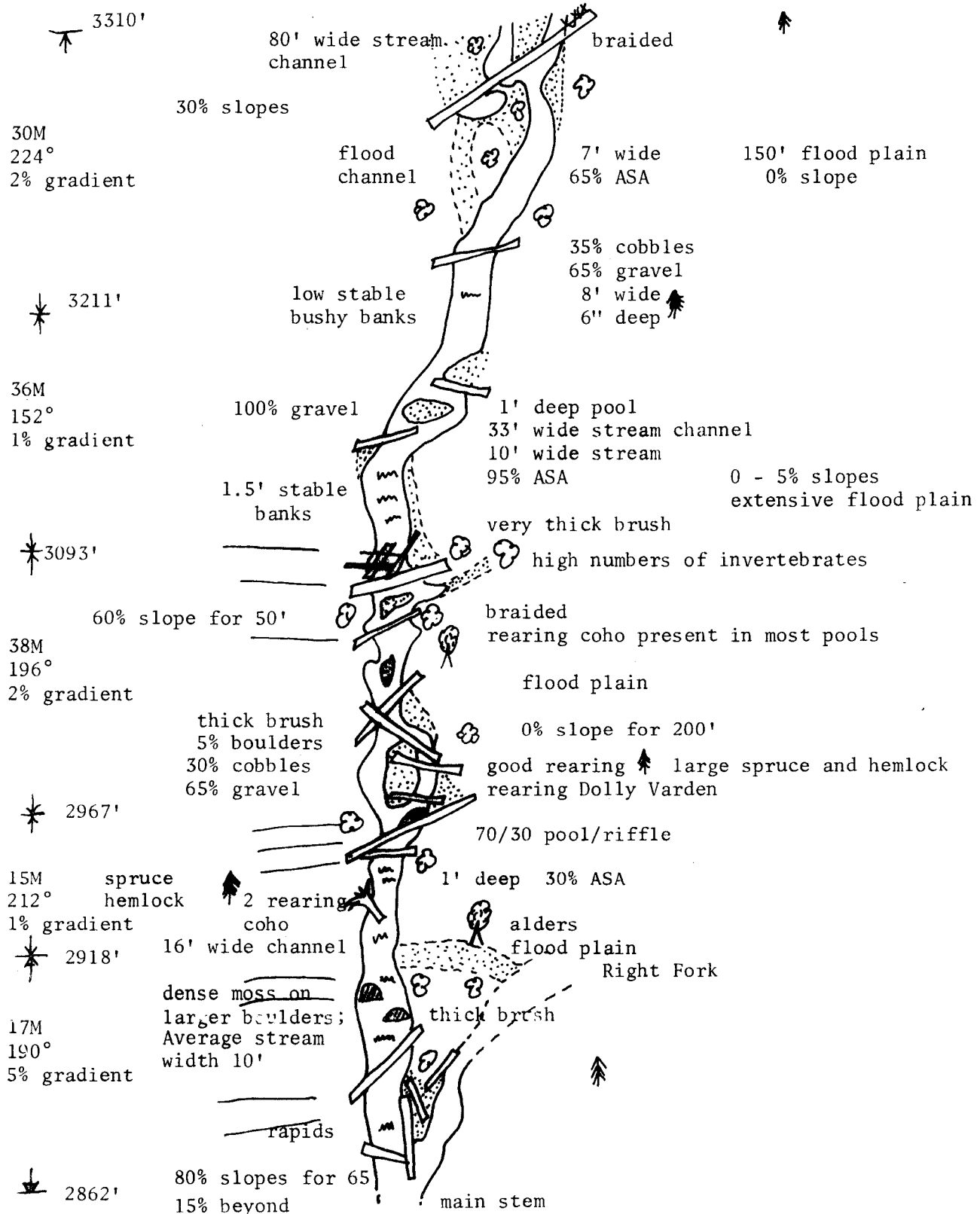
(Left fork of upper stream)

Light brown and clear water  
flow - 5 cfs (est.)



Air: 60°F  
 Water: 52°F  
 pH: 7.5  
 Flow: 12 cfs (est.)

103-50-49  
 Left Fork  
 7-14-77  
 Larson, Pease



103-50-49  
(Head Stream)

